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Serodiagnosis of mammary cancer - by immunoassay of prod. of c-erbB-2 cancer gene, by binding gene with specific purified antibody and solid phase carrier

Index Terms: SEROLOGICAL MAMMARY CANCER; IMMUNOASSAY PRODUCT CANCER GENE BIND GENE SPECIFIC PURIFICATION ANTIBODY SOLID PHASE CARRY

Patent Assignee: (NICH-) NICHIREI KK

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Abstract (Basic): JP 3191865

Determining prod. of c-erbB-2 cancer gene by enzyme immunoassay comprises binding a purified antibody specific to prod. of c-erbB-2 cancer gene with a solid phase carrier, selectively binding prod. of c-erbB-2 cancer gene in a sample such as blood serum with the antibody to catch the prod., and colouring by using biotin-labelled 2nd monoclonal antibody, avidinbiotin complex method and its substrate in the enzyme immunoassay of the prod.

Also claimed is a kit for the serodiagnosis which contains antibody necessary for the determn. of the prod. of c-erbB-2 cancer gene, reference sample, colouring reagent, etc.

Monoclonal antibody is pref. used for the solid phase is 9G6, and enzyme-labllled monoclonal antibody is SV2-61gamma. In the method, SV2-61 gamma is labelled with an enzyme such as peroxidase or alkaline phosphatase and coloured. Positive control for reference is supernatant of cell strain EX-5 or purified prod. of c-erbB-2 cancer gene.

USE/ADVANTAGE - The method and the kit are useful for detecting or determining prod. of c-erbB-2 cancer gene in human blood serum. The kit is used for the diagnosis of glandular cell cancer, esp. mammary cancer, stomach cancer, etc. Glandular cell cancer such as mammary cancer can be simply and rapidly diagnosed by the examination of blood serum based on that prod. of c-erbB-2 gene is present in blood serum of human mammary cancer patient but is not detected in that of healthy normal person. The diagnosis of the prognosis of the cancer can be carried out by the determn. of the prod. of c-erbB-2 gene. @5pp
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